Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-10-26** **Date: 16/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.93 X 151.93 X 149.42	23082	8.917	422.2	18.3	18.5
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.82 X 150.10 X 150.98	22638	8.774	417.2	18.4	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	150.35 X 149.96 X 150.98	22546	8.975	426.5	18.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-10-26** **Date: 05/09/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.21 X 151.10 X 150.23	22697	8.193	542.2	23.9	23.4
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	151.05 X 150.69 X 151.88	22761	8.761	507.2	22.3	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	151.78 X 150.80 X 151.02	22888	8.120	548.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-10-26** **Date: 21/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/08/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	151.57 X 150.28 X 149.87	22779	8.917	431.6	18.9	18.8
2	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	149.58 X 151.82 X 149.56	22709	8.774	422.0	18.6	
3	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	150.07 X 150.67 X 150.14	22611	8.975	428.0	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-10-26 **Date: 10/09/2019**

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.

Agency : Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/48/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-08-2019

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	150.10 X 149.27 X 149.84	22407	8.193	516.8	23.1	22.7
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.02 X 149.38 X 151.56	22260	8.761	491.4	22.1	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.54 X 149.05 X 151.84	22587	8.120	519.6	23.0	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/08/2019

Lab ID	:	CP-2019-09-10-26
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	149.20 X 150.76 X 149.06	22493	8.917	419.3	18.6	18.7
2	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	149.92 X 150.83 X 151.96	22613	8.774	424.6	18.8	
3	Drain Side Wall Concrete	M20	13/08/2019	21/08/2019	149.02 X 151.20 X 151.48	22532	8.975	420.3	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-10-26**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-08-2019
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 10/09/2019

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.42 X 149.37 X 149.97	22318	8.193	515.2	23.1	23.0
2	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	149.04 X 151.97 X 151.34	22650	8.761	499.5	22.1	
3	Drain Side Wall Concrete	M20	13/08/2019	10/09/2019	151.47 X 150.18 X 151.21	22748	8.120	544.2	23.9	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-09-10-26** **Date: 05-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-08-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-10-26** **Date: 07-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-09-10-26**	**Date: 17-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.	
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.	
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-8-2019	
Sample Type /Size	:	Precast Cover Slab(100mm)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	13/08/2019	

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2019-09-10-26 **Date: 23-08-19**

Customer : Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.

Agency : Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/48/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-8-2019

Sample Type /Size : CC Kerb Stone/ 450*150*500mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/08/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	150.51	2.964	7854	144.1	18.4	18.4	22.9
2	B	100.03	150.49	2.793	7857	144.2	18.3	18.3	22.9
3	C	100.01	150.50	2.815	7854	144.1	18.3	18.3	22.9

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CEMENT CONCRETE FLOORING TILES

Date: 27-08-19

Lab ID	:	CP-2019-09-10-26
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-19
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	24-08-19

1.Wet Transverse Strength

SLNo.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	250	250	25.24	6.95	6.67	The average wet transverse strength shall not be less than $3N/mm^2$
2	250	250	25.15	6.98		
3	250	250	25.19	6.82		
4	250	250	25.12	6.54		
5	250	250	25.47	6.18		
6	250	250	25.45	6.55		

2. Water Absorption

SLNo.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	250	250	25.27	2.28	2.41	The average percentage of water absorption shall not exceed 10.
2	250	250	25.19	2.95		
3	250	250	25.14	2.55		
4	250	250	25.21	2.24		
5	250	250	25.28	2.29		
6	250	250	25.07	2.15		

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-10-26** **Date: 16/08/2019**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	149.11 X 149.57 X 149.09	22302	8.917	412.9	18.5	18.8
2	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.80 X 149.51 X 151.47	22695	8.774	430.5	19.0	
3	Drain Bottom Slab Concrete	M20	08/08/2019	16/08/2019	151.41 X 149.69 X 151.04	22664	8.975	427.5	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/09/2019

Lab ID	:	CP-2019-09-10-26
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	150.06 X 151.03 X 150.40	22664	8.193	528.4	23.3	23.1
2	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.61 X 151.46 X 149.85	22660	8.761	520.1	23.0	
3	Drain Bottom Slab Concrete	M20	08/08/2019	05/09/2019	149.19 X 149.65 X 151.89	22326	8.120	514.6	23.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-10-26** **Date: 05-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-10-26** **Date: 31-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-10-26** **Date: 05-08-19**
Customer	:	Assistant Executive Engineer,Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Footpath at Ganesha Temple B Sector in Ward No.04 Yelahanka Division.
Agency	:	Sri.Krishna S, No.35, K H B Main Road, A Block, Kaveri Nagar, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/48/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	2499	2688	53.8	46.2	25-55
4	4.75 mm	2011	4699	94.0	6.0	0-10
5	Pan	301	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-10-26** **Date: 05-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.38	–
7	Aggregate crushing Value(%)	26.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	28.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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